Séminaire / Seminar **AMAP**

Olivier is currently a Senior Researcher at the Royal Botanic Gardens, Kew. He is responsible of the sampling and phylogenomic for the Plant and Fungal Trees of Life project (PAFTOL).

Email: O.Maurin@kew.org

27 Mar 2022
11h00-12h00 (Paris Time)

Salle 201, Bâtiment PS2, CIRAD-UMR AMAP,
Boulevard de la Lironde, Montpellier
Zoom : https://umontpellier-fr.zoom.us/j/93867592698

Phylogenies and their potential for ecological research

presented by

Dr. Olivier Maurin

Royal Botanic Gardens, Kew

ABSTRACT

The presentation looks at the progress made in plant systematic and phylogenetics over the past 40 years. From small datasets comprising a few individuals and a few hundred nucleotides to the current "mega" datasets including hundreds of thousands of base pairs and thousands of individuals, we look at case examples demonstrating the benefits of integrating an evolutionary framework in plant systematic and taxonomy, DNA barcoding and biogeography. Finally, we introduce past and ongoing collaborative initiatives between systematists and ecologists on several key projects: the Underground Forests of Africa, the Herbivory in African savanna (with Tristan Charles-Dominique), The plant Architecture in the genus Euphorbia and the Patterns of Distribution and seed dispersal in Combretaceae (with Artemis Anest).

KEY WORDS Phylogenies, Target Sequencing, Plant identification, Ancestral trait reconstruction, PAFTOL

Invited and animated by:	Dr. Tristan Charles-Dominique (UMR AMAP)
Type:	Research results
Oral language:	English
Language of PPT:	English